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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/527,302	03/09/2005	Takayuki Takahata	1217-050600	9605		
7590 04/18/2006			EXAM	EXAMINER		
Kent E Baldauf Sr			ARGENBRIGHT,	ARGENBRIGHT, TONY MICHAEL		
700 Koppers B						
436 Seveth Av	enue	ART UNIT	PAPER NUMBER			
Pittsburgh, PA	15219-1818	3747				
			DATE MAILED: 04/18/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)					
Office Action Summary		10/527,3	302	TAKAHATA ET AL.					
		Examine	r	Art Unit					
		T. M. Arg	enbright	3747					
Period for	The MAILING DATE of this commun Reply	ication appears on th	e cover sheet with the	correspondence ad	ldress				
WHICH - Extension - If NO per - Failure of Any rep	RTENED STATUTORY PERIOD F EVER IS LONGER, FROM THE N ons of time may be available under the provisions (6) MONTHS from the mailing date of this comn riod for reply is specified above, the maximum st o reply within the set or extended period for reply y received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF T of 37 CFR 1.136(a). In no en nunication. atutory period will apply and v will, by statute, cause the ap	HIS COMMUNICATION went, however, may a reply be to the source of the sou	DN. imely filed m the mailing date of this c IED (35 U.S.C. § 133).					
Status									
1)⊠ R	esponsive to communication(s) file	ed on <i>09 March 200</i> 5	i.						
· <u></u>	•	2b)⊠ This action is							
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
cl	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositio	of Claims								
4)⊠ C	laim(s) <u>1-35</u> is/are pending in the a	application.	`						
48	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□ C	5) Claim(s) is/are allowed.								
6)⊠ C	☑ Claim(s) <u>21</u> is/are rejected.								
•	☑ Claim(s) <u>1-35</u> is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Application	n Papers			•					
9)⊠ T ł	ne specification is objected to by th	e Examiner.		•					
10)⊠ The drawing(s) filed on <u>09 March 2005</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority un	der 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s			 □						
	of References Cited (PTO-892) If Draftsperson's Patent Drawing Review (P	PTO-948)	4) Interview Summar Paper No(s)/Mail I						
3) 🛛 Informa	tion Disclosure Statement(s) (PTO-1449 or o(s)/Mail Date <u>11/7/05</u> .		5) Notice of Informal 6) Other:		O-152)				

DETAILED ACTION

Drawings

Figure 14 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to because the non-English legends should be deleted from Figure 9. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: on page 16, line 14, "almost truck" is unclear.

Appropriate correction is required.

Claim Objections

Claims 7 and 14 are objected to because of the following informalities: in line 3, "the metallic fin" should read "a metallic fin". Appropriate correction is required.

Claims 1-35 are objected to because they include reference characters which are not enclosed within parentheses.

Reference characters corresponding to elements recited in the detailed description of the drawings and used in conjunction with the recitation of the same element or group of elements in the claims should be enclosed within parentheses so as to avoid confusion with other numbers or characters which may appear in the claims. See MPEP § 608.01(m).

Claim Rejections - 35 USC § 112

Claim 21 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The last line of the claim is incomplete.

Conclusion

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The fuel property detectors made of record and not relied upon are considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. M. Argenbright whose telephone number is 571-272-4837. The examiner can normally be reached M-Th 6:30am-3:00pm and alt. Fridays 6:30am-2:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 571-272-4856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T. M. Argenbright Primary Examiner Art Unit 3747